Ontario

Mapping Symbology for the *Clean Water Act*

November 2009

Produced For:
Source Protection Programs Branch, Ministry of the Environment

Produced By:
Water Resources Information Program (WRIP),
Geographic Information Branch, Ministry of Natural Resources

In conjunction with:
Conservation Ontario

Table of Contents

Version History - Page 1

Document Release Date	Description of changes
April 2009	• Add Settlement Areas as a border • GUDI intake point is required • Highly Vulnerable Aquifers which are directly related (in fact the same thing as) high intrinsic vulnerability so the symbols should be very similar • The symbols for IPZ2 and IPZ3 scoring should also reference WHPA E and WHPA F as they will be the same. • transport pathway polygon, line and point can be removed and replaced simply by a Transport Pathway Area of Influence. This will be part of the IPZ and WHPAs so perhaps some sort of hatch to differentiate it would be prudent. • Symbols from John Gaiot SymbolUpdates_Round3.pdf, Example Figure VI.6&7 Type C.pdf • Threats symbols and data set descriptions • Water Budgets symbols • deleted CURB symbol • deleted blank data set descriptions like significant Groundwater recharge area • deleted Cemetaries symbol • Delete: WSIS Threats open and Threats closed(there is no WSIS) see HWIN • Revise: HWIN open and add HWIN closed (pg 20) • Delete: Groundwater Taking outside watershed divide • Delete: Groundwater Supply Area and Surface Water Supply Area • Add: Well Type IV – 1st Nations • Delete Operating Mine Site and Abandoned Mine Site Symbol • Delete : Annual withdrawals groundwater and Annual withdrawals surfacewater • Adjust WHPA C1 to be a different colour than WHPA C • Move the GUDI point to same page as WHPA E • Rename Provincial Groundwater Monitoring Network is PGWMN not PGWN • Change ORIS/Spills Database symbol so it is not similar to the 21 Threats (pg 20) • Revise symbol description Intake Classification Type D - Inland Lakes and Impoundments • Delete: Cataraqui Region SPR, Niagara Peninsula SPR, Essex Region SPR, Lakehead Region SPR, Sault Ste. Marie Region SPR, Mattagami Region SPR, Sudbury SPR, North Bay-Mattawa SPR • Water Budgets:Add L, M, H to fill colors and include black solid boundary. Add note: Fill colours optional on maps with multiple layers • Drinking Water System 3 should be a circle (the same as the other MOH regulated entities) • Add acronym Record of Site Condition - RSC • Clarify “Brownfield RSC” • Add Contaminated Site • Add Waste Site Open

Version History - Page 2

Document Release Date	Description of changes
April 2009	• Add Waste Site Closed • Add Haz Waste Generator • Add Haz Waste Receiver • Delete Non Ag source material (see threats pg 24) • Delete Ag source material • 120 m setback move to WHPA page • Recharge Reduction should be replace Potential Recharge Reduction • Add: Municipal / Provincial Sewage System • Add: Industrial Sewage System • Delete Concentration Ranges • Delete Groundwater supply area • Delete Surfacewater supply area
November 2009	• Change: Symbology document version to 5, now same version number as Assessment Report Outputs Data Specifications document • Insert: Version History chart • Move: Waterbody symbol from Misc. Symbols - Polygon section to Boundaries section • Change: to SPA – Napanee, Moira and Prince Edward County have combined into Quinte SPA • Change: colour of Raisin Region SPA • Change: the colour for IPZ-2 and WHPA E (same colour) • Rename: WHPA - D (GUDI) to WHPA - F (GUDI) • Change: colour of WHPA - F (GUDI) and IPZ-3 (same colour) • Add: Cartographic Specifications to all Prescribed Drinking Water Threats symbols • Change: Misc. Symbols - Polygon to Managed Lands and Livestock Density • Add: Agricultural Managed Lands and Non-Agricultural Managed Lands • Removed versioning • Add symbol Riparian Areas • Add symbol Wetlands • Add symbol Woodlands • Rework of label placement for Prescibed Drinking Water Threats symbology (Appendix E and F)
February 2010	• Add symbol Fertilizer • Change: Regulation Limit to Conservation Authority Regulation Limit • Add symbol Water Control Structures • Add symbol Direction of water flow • Add symbol Potentiometric surface levels • Add symbol Sewershed

Boundaries - (Base Data)

Data Set Description	Cartographic Representation	Cartographic Specifications	Colour Specifications		ID
Watershed		*lineweight: 0.71mm (2pt)* *dash-gap: 4.23mm (12pt) - 0.71mm(2pt) - 0.71mm(2pt) - 0.71mm(2pt) - 0.71mm(2pt) - 0.71mm(2pt)*	*CMYK* *RGB*	*75, 38, 0, 0* *58, 137, 201*	
SWP Watershed Region		*lineweight: 0.53mm (1.5pt)*	*CMYK* *RGB*	*15, 65, 0, 35* *149, 83, 126*	
SWP Watershed Area		*lineweight: 0.25mm (0.7pt)*	*CMYK* *RGB*	*15, 65, 0, 35* *149, 83, 126*	
Road - Primary Highway		*lineweight: 0.88mm (2.5pt)*	*CMYK* *RGB*	*0, 0, 0, 50* *127, 127, 127*	
Road - Secondary Highway		*lineweight: 0.53mm (1.5pt)*	*CMYK* *RGB*	*0, 0, 0, 50* *127, 127, 127*	
Road - Other		*lineweight: 0.35mm (1.0pt)*	*CMYK* *RGB*	*0, 0, 0, 50* *127, 127, 127*	
Conservation Authority Regulation Limit		*lineweight: 0.18mm (0.5pt)* *dash: 1.41mm (4pt)*	*CMYK* *RGB*	*0. 100, 100, 0* *237, 28, 36*	
Settlements		*lineweight: 0.35mm (1.0pt)*	*CMYK* *RGB*	*0,0,0,100* *0, 0, 0*	
Political Boundary - Provincial		*lineweight: 1.6mm (4.535pt)* *dash-gap: 1.0mm (2.835pt) - 0.8mm(2.268pt) - 1.0mm (2.835pt) - 0.8mm(2.268pt) - 5.5mm (15.591pt) - 0.8mm(2.268pt)*	*CMYK* *RGB*	*0, 0, 0, 25* *198, 200, 202*	
Political Boundary - Upper Tier		*lineweight: 1.6mm (4.535pt)* *dash-gap: 1.0mm (2.835pt) - 0.8mm(2.268pt) - 1.0mm (2.835pt) - 0.8mm(2.268pt) - 4.0mm (11.339pt) - 0.8mm(2.268pt)*	*CMYK* *RGB*	*0, 0, 0, 25* *198, 200, 202*	
Political Boundary - Lower Tier		*lineweight: 1.3mm (3.685pt)* *dash-gap: 0.5mm (1.417pt) - 0.7mm(1.984pt) - 5.5mm(15.591pt) - 0.7mm(1.984pt)*	*CMYK* *RGB*	*0, 0, 0, 25* *198, 200, 202*	
Waterbody		*lineweight: 0.127mm (0.36pt)*	*CMYK* *RGB* *RGB* *CMYK*	*15, 0, 0, 0* *212, 239, 252* *0, 174, 222* *74, 10, 4, 0*	
Riparin Area		*lineweight: 0.18mm (0.5pt)* *picture fill: shd53.bmp with transparent background* *C:\Program Files\ArcGIS\Styles\Pictures*	*CMYK* *RGB*	*60, 20, 33, 0* *102, 205, 171*	
Wetland		*lineweight: 0.18mm (0.5pt)* *picture fill: swamp.bmp with transparent background* *C:\Program Files\ArcGIS\Styles\Pictures*	*CMYK* *RGB*	*60, 40, 20, 0* *102, 153, 205*	
Woodland		*lineweight: 0.18mm (0.5pt)* *picture fill: pat054.bmp with transparent background* *C:\Program Files\ArcGIS\Styles\Pictures*	*CMYK* *RGB*	*55, 46, 73, 0* *114, 137, 205*	
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		

Source Protection Planning Regions

Data Set Description	Cartographic Representation	Cartographic Specifications	Colour Specifications		ID
Ausable - Bayfield Maitland Valley			CMYK RGB	62, 54, 77, 0 98, 117, 59	
CTC			CMYK RGB	13, 8, 39, 0 222, 255, 156	
Halton - Hamilton			CMYK RGB	60, 24, 61, 0 103, 193, 100	
Lake Erie			CMYK RGB	22, 16, 38, 0 199, 215, 158	
Mississippi - Rideau			CMYK RGB	9 0, 13, 0 232, 255, 222	
Other			CMYK RGB RGB CMYK	9, 0, 25, 0 233, 255, 190 110, 110, 110 0, 0, 0, 5	
Quinte			CMYK RGB	53, 43, 71, 0 121, 145, 73	
Raisin Region South Nation			CMYK RGB	29, 16, 38, 0 180, 215, 158	
South Georgian Bay Lake Simcoe			CMYK RGB	51 44, 60, 0 233, 255, 190	
Saugeen GreySauble Northen Bruce Peninsula			CMYK RGB	13,1,21,0 221, 252, 202	
Thames, Sydenham and Region			CMYK RGB	16, 20, 60, 0 137, 205, 102	
Trent Conservation Coalition			CMYK RGB	29, 16, 38, 0 180, 215, 158	
			CMYK RGB		
			CMYK RGB		
			CMYK RGB		
			CMYK RGB		
			CMYK RGB		
			CMYK RGB		
			CMYK RGB		
			CMYK RGB		
			CMYK RGB		

Source Protection Planning Areas (page 1)

Data Set Description	Cartographic Representation	Cartographic Specifications	Colour Specifications		ID
Ausable Bayfield			CMYK	36, 10, 35, 0	
			RGB	184, 207, 218	
Cataraqui			CMYK	12, 6, 31, 0	
			RGB	187, 199, 170	
Catfish Creek			CMYK	29, 13, 17, 0	
			RGB	179, 200, 203	
Central Lake Ontario			CMYK	23, 4, 12, 0	
			RGB	194, 220, 220	
Credit Valley			CMYK	31, 8, 37, 0	
			RGB	180, 205, 172	
Crowe Valley			CMYK	30, 1, 33, 0	
			RGB	180, 217, 184	
Essex			CMYK	32, 6, 28, 0	
			RGB	175, 208, 190	
Ganaraska Region			CMYK	18, 10, 29, 0	
			RGB	209, 212, 185	
Grand River			CMYK	18, 4, 26, 0	
			RGB	209, 223, 196	
Grey Sauble			CMYK	21, 8, 9 0	
			RGB	196, 214, 220	
Halton			CMYK	25, 6, 26, 0	
			RGB	191, 212, 193	
Hamilton			CMYK	16, 7, 29, 0	
			RGB	214, 218, 187	
Kawartha-Haliburton			CMYK	22, 5, 33, 0	
			RGB	204, 218, 181	
Kettle Creek			CMYK	31, 32, 20, 0	
			RGB	176, 174, 203	
Lakehead			CMYK	29, 16, 20, 0	
			RGB	182, 215, 203	
Lakes Simcoe & Couchiching/Black River			CMYK	27, 22, 15, 0	
			RGB	185, 200, 217	
Long Point			CMYK	29, 29, 23, 0	
			RGB	182, 180, 197	
Lower Thames Valley			CMYK	27, 19, 29, 0	
			RGB	187, 206, 182	
Lower Trent			CMYK	22, 22, 29, 0	
			RGB	198, 199, 180	
Maitland Valley			CMYK	20, 19, 11, 0	
			RGB	205, 206, 226	
Mattagami			CMYK	28, 19, 15, 0	
			RGB	184, 207, 218	

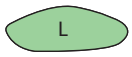
Source Protection Planning Areas (page 2)

Data Set Description	Cartographic Representation	Cartographic Specifications	Colour Specifications		ID
Mississippi Valley			CMYK	27, 22, 33, 0	
			RGB	187, 199, 170	
Quinte			CMYK	27, 18, 19, 0	
			RGB	190, 209, 206	
Niagara Peninsula			CMYK	26, 11, 13, 0	
			RGB	188, 226, 221	
Nickel District			CMYK	25, 15, 25, 0	
			RGB	190, 218, 191	
North Bay-Mattawa			CMYK	23, 24, 16, 0	
			RGB	196, 194, 214	
Northern Bruce Peninsula			CMYK	34, 23, 25, 0	
			RGB	168, 197, 190	
Nottawasaga Valley			CMYK	34, 16, 16, 0	
			RGB	178, 213, 214	
Otonabee-Peterborough			CMYK	34, 23, 9, 0	
			RGB	190, 197, 223	
Raisin Region			CMYK	28, 22, 7, 18	
			RGB	155, 159, 179	
Rideau Valley			CMYK	22, 12, 20, 0	
			RGB	200, 224, 205	
Saugeen Valley			CMYK	25, 26, 15, 0	
			RGB	190, 189, 217	
Sault Ste. Marie			CMYK	23, 19, 27, 0	
			RGB	196, 206, 187	
Severn Sound			CMYK	23, 25, 22, 0	
			RGB	168, 190, 199	
South Nation			CMYK	22, 11, 14, 0	
			RGB	199, 226, 220	
St. Clair Region			CMYK	27, 20, 25, 0	
			RGB	186, 203, 190	
Toronto			CMYK	30, 25, 22, 0	
			RGB	179, 191, 200	
Upper Thames River			CMYK	30, 11, 26, 0	
			RGB	196, 226, 188	
			CMYK		
			RGB		
			CMYK		
			RGB		
			CMYK		
			RGB		
			CMYK		
			RGB		

Water Budgets - (Water Quantity)

Data Set Description	Cartographic Representation	Cartographic Specifications	Colour Specifications		ID
Local Area - Surface Water		lineweight: 0.176mm (0.5pt)	CMYK RGB	44, 0, 60, 0 149, 206, 139	
			RGB CMYK	0, 112, 59 100, 0, 92, 42	
Local Area - Groundwater		lineweight: 0.176mm (0.5pt)	CMYK RGB	2, 1, 35, 0 251, 243, 182	
			RGB CMYK	126, 100, 68 25, 40, 65, 42	
Subwatershed Stress Level Significant - Surface Water			CMYK RGB	68, 23, 71, 23 76, 127, 90	
Subwatershed Stress Level Moderate - Surface Water			CMYK RGB	30, 9, 34, 9 166, 187, 163	
Subwatershed Stress Level Low - Surface Water			CMYK RGB	10, 3, 11, 0 227, 234, 225	
Subwatershed Stress Level Significant - Groundwater			CMYK RGB	5, 24, 100, 0 242, 192, 25	
Subwatershed Stress Level Moderate - Groundwater			CMYK RGB	6, 8, 48, 0 235, 219, 149	
Subwatershed Stress Level Low - Groundwater			CMYK RGB	2, 2, 12, 0 249, 244, 255	
Significant Groundwater Recharge Area (SGRA)			CMYK RGB	0, 0, 0, 100 35, 31, 32	
Water Taking Threat	⊕	installation of swp.ttf required symbol size: 3.18mm (9pt) circle diameter: 3.18mm (9pt) circle outline width: 0.35mm (1pt) crosshair width: 0.35mm (1pt)	CMYK RGB	39, 80, 60, 0 168, 85, 96	
Recharge Reduction Threat		lineweight: 0.09mm (.25pt)	CMYK RGB	5, 4, 32, 0 242, 234, 185	
			RGB CMYK	168, 85, 96 39, 80, 60, 0	
Active Permit to Take Water Surface Water		installation of MOESymbologyA.ttf required white halo mask 0.18mm (0.50pt)	CMYK RGB	62, 12, 55, 22 83, 144, 116	
			RGB CMYK	255, 255, 255 0, 0, 0, 0	
Active Permit to Take Water Groundwater		installation of MOESymbologyA.ttf required white halo mask 0.176mm (0.5pt)	CMYK RGB	0, 40, 50, 20 205, 140, 106	
			RGB CMYK	255, 255, 255 0, 0, 0, 0	
Local Area Risk Level Significant	S	if multiple fills are overlapping, remove the fill of this symbol and use alphanumeric representation	CMYK RGB	0, 100, 100, 0 237, 34, 39	
			RGB CMYK	0, 0, 0, 100 35, 31, 32	
Local Area Risk Level Moderate	M	if multiple fills are overlapping, remove the fill of this symbol and use alphanumeric representation	CMYK RGB	0, 0, 100, 0 255, 242, 0	
			RGB CMYK	0, 0, 0, 100 35, 31, 32	
Local Area Risk Level Low	L	if multiple fills are overlapping, remove the fill of this symbol and use alphanumeric representation	CMYK RGB	50, 0 , 100, 0 140, 198, 63	
			RGB CMYK	0, 0, 0, 100 35, 31, 32	
Potentiometric surface - upwards			CMYK RGB	25, 18, 0, 0 187, 196, 228	
Potentiometric surface - downwards			CMYK RGB	100, 55, 55, 0 0, 107, 118	
Water Control Structure	▬	installation of swp.ttf required symbol size: 6.35 (18pt)	CMYK RGB	0, 0, 0, 100 35, 31, 32	
Direction of water fllow	→	installation of ESRI Dimensioning.ttf required symbol size: 6.35 (18pt) Angle: -90	CMYK RGB	55, 3, 0, 0 115, 178, 255	
			CMYK RGB		

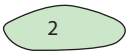
Vulnerability - Intrinsic Groundwater (I.V) (Groundwater Quality)

Data Set Description	Cartographic Representation	Cartographic Specifications	Colour Specifications			ID
Intrinsic Groundwater Vulnerability Low		*if multiple fills are overlapping, remove the fill of this symbol and use alphanumeric representation*		CMYK RGB	40, 0, 50, 0 157, 210, 156	
				RGB CMYK	0, 0, 0, 100 35, 31, 32	
Intrinsic Groundwater Vulnerability Medium		*if multiple fills are overlapping, remove the fill of this symbol and use alphanumeric representation*		CMYK RGB	0, 38, 75, 0 250, 172, 86	
				RGB CMYK	0, 0, 0, 100 35, 31, 32	
Intrinsic Groundwater Vulnerability High		*if multiple fills are overlapping, remove the fill of this symbol and use alphanumeric representation*		CMYK RGB	0, 100, 100, 0 237, 28, 184	
				RGB CMYK	0, 0, 0, 100 35, 31, 32	
				CMYK RGB		
				CMYK RGB		
				CMYK RGB		
				CMYK RGB		
				CMYK RGB		
				CMYK RGB		
				CMYK RGB		
				CMYK RGB		
				CMYK RGB		
				CMYK RGB		
				CMYK RGB		
				CMYK RGB		
				CMYK RGB		
				CMYK RGB		
				CMYK RGB		
				CMYK RGB		
				CMYK RGB		

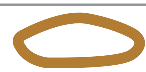
Vulnerability - Well Head Protection Areas (I.V) (Groundwater Water Quality)

Data Set Description	Cartographic Representation	Cartographic Specifications	Colour Specifications		ID
WHPA-A		lineweight: 0.176mm (0.5pt)	CMYK RGB	0, 50, 100, 20 204, 122, 33	
			RGB CMYK	35, 31, 32 0, 0, 0, 100	
WHPA-B		lineweight: 0.176mm (0.5pt)	CMYK RGB	0, 38, 75, 0 250, 172, 86	
			RGB CMYK	35, 31, 32 0, 0, 0, 100	
WHPA-C		lineweight: 0.176mm (0.5pt)	CMYK RGB	0, 25, 50, 0 253, 198, 137	
			RGB CMYK	35, 31, 32 0, 0, 0, 100	
WHPA-C1		lineweight: 0.176mm (0.5pt)	CMYK RGB	0, 25, 50, 9 253, 198, 137	
			RGB CMYK	35, 31, 32 0, 0, 0, 100	
WHPA-D		lineweight: 0.176mm (0.5pt)	CMYK RGB	0, 0, 50, 0 255, 247, 153	
			RGB CMYK	35, 31, 32 0, 0, 0, 100	
120m Minimum Setback		lineweight: 0.18mm (0.5pt) dash: 0.71mm (2pt)	CMYK RGB	87. 52, 0, 0 07, 13, 188	
WHPA - Q1		lineweight: 0.176mm (0.5pt)	CMYK RGB	27, 45, 0, 0 184, 147, 196	
			RGB CMYK	35, 31, 32 0, 0, 0, 100	
WHPA - Q2		lineweight: 0.176mm (0.5pt)	CMYK RGB	13, 22, 0, 0 216, 198, 225	
			RGB CMYK	35, 31, 32 0, 0, 0, 100	
IPZ - Q		lineweight: 0.176mm (0.5pt)	CMYK RGB	41, 4, 18, 0 148, 204, 208	
			RGB CMYK	0, 0, 0, 100 35, 31, 32	
IPZ-1		lineweight: 0.176mm (0.5pt) line dash: 2.82mm (8pt)	CMYK RGB	21, 93, 86, 11 179, 51, 50	
			RGB CMYK	0, 0, 0, 100 35, 31, 32	
IPZ-2 (includes Transport Pathways)		lineweight: 0.176mm (0.5pt) line dash: 2.82mm (8pt)	CMYK RGB	78, 10, 42, 0 0, 169, 163	
			RGB CMYK	0, 0, 0, 100 35, 31, 32	
IPZ-3 (includes Transport Pathways)		lineweight: 0.176mm (0.5pt) line dash: 2.82mm (8pt)	CMYK RGB	20, 0, 25, 0 205, 231, 202	
			RGB CMYK	0, 0, 0, 100 35, 31, 32	
WHPA-E (GUDI)		lineweight: 0.176mm (0.5pt)	CMYK RGB	78, 10, 42, 0 0, 169, 163	
			RGB CMYK	0, 0, 0, 100 35, 31, 32	
WHPA-F (GUDI)		lineweight: 0.176mm (0.5pt)	CMYK RGB	20, 0, 25, 0 205, 231, 202	
			RGB CMYK	0, 0, 0, 100 35, 31, 32	
GUIDI Feature		installation of swp.ttf required size 5.29mm (15pt)	CMYK RGB	84, 66, 0, 0 0, 92, 230	
WHPA - All Combined			CMYK RGB	0, 50, 100, 20 204, 122, 33	
Vulnerability Score - Area for IPZ-3	6.3 7.2	lineweight: 0.353mm (1pt) label: Arial Bold Italic 4pt	CMYK RGB	0, 0, 0, 100 35, 31, 32	
Vulnerability Score - Area for IPZ-2	8	lineweight: 0.353mm (1pt) label: Arial Bold Italic 4pt	CMYK RGB	0, 0, 0, 100 35, 31, 32	
Vulnerability Score - Area for IPZ-1	9	lineweight: 0.353mm (1pt) label: Arial Bold Italic 4pt	CMYK RGB	0, 0, 0, 100 35, 31, 32	
			CMYK RGB		
			CMYK RGB		

Vulnerability - Scoring for Inside and Outside WHPA's (Groundwater Quality)

Data Set Description	Cartographic Representation	Cartographic Specifications	Colour Specifications		ID
WHPA Vulnerability Scoring - 2 (low)		*if multiple fills are overlapping, remove the fill of this symbol and use alphanumeric representation*	CMYK RGB RGB CMYK	20, 0, 25, 0 204, 198, 63 0, 0, 0, 100 35, 31, 32	
WHPA Vulnerability Scoring - 4		*if multiple fills are overlapping, remove the fill of this symbol and use alphanumeric representation*	CMYK RGB RGB CMYK	50, 0 , 100, 0 140, 198, 63 0, 0, 0, 100 35, 31, 32	
WHPA Vulnerability Scoring - 6		*if multiple fills are overlapping, remove the fill of this symbol and use alphanumeric representation*	CMYK RGB RGB CMYK	0, 0, 100, 0 255, 242, 0 0, 0, 0, 100 35, 31, 32	
WHPA Vulnerability Scoring - 8		*if multiple fills are overlapping, remove the fill of this symbol and use alphanumeric representation*	CMYK RGB RGB CMYK	0, 50, 100, 0 247, 147, 30 0, 0, 0, 100 35, 31, 32	
WHPA Vulnerability Scoring - 10 (high)		*if multiple fills are overlapping, remove the fill of this symbol and use alphanumeric representation*	CMYK RGB RGB CMYK	0, 100, 100, 0 237, 34, 39 0, 0, 0, 100 35, 31, 32	
			CMYK RGB		
			CMYK RGB		
			CMYK RGB		
			CMYK RGB		
			CMYK RGB		
			CMYK RGB		
			CMYK RGB		
			CMYK RGB		
			CMYK RGB		
			CMYK RGB		
			CMYK RGB		
			CMYK RGB		
			CMYK RGB		
			CMYK RGB		
			CMYK RGB		
			CMYK RGB		

Vulnerability - Transport Pathways

Data Set Description	Cartographic Representation	Cartographic Specifications	Colour Specifications		ID
Transport Pathway Area of Influence		*lineweight: 0.353mm (1pt)* *circle fill: 1.06mm (3pt),* *circle fill separation: 1.41mm (5pt)*	*CMYK* *RGB*	*0, 0, 0, 100* *35, 31, 32*	
Sewershed		*lineweight: 1.41mm (4pt)*	*CMYK* *RGB* *RGB* *CMYK*	*34, 56, 100, 0* *168, 112, 0* *34, 56, 100, 0* *168, 112, 0*	
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		

Prescribed Drinking Water Threats

Data Set Description	Cartographic Representation	Cartographic Specifications	Colour Specifications		ID
The establishment, operation or maintenance of a waste disposal site within the meaning of Part V of the Environmental Protection Act.	1	installation of swp.ttf required apply labels centered on the symbol Please refer to Appendix E - Example of Symbology and Label Placement	CMYK RGB	0, 0, 0, 30 178, 178, 178	
			RGB CMYK	35, 31, 32 0, 0, 0, 100	
The establishment, operation or maintenance of a system that collects, stores, transmits, treats or disposes of sewage.	2	installation of swp.ttf required apply labels centered on the symbol Please refer to Appendix E - Example of Symbology and Label Placement	CMYK RGB	0, 0, 0, 30 178, 178, 178	
			RGB CMYK	35, 31, 32 0, 0, 0, 100	
The application of agricultural source material to land.	3	installation of swp.ttf required apply labels centered on the symbol Please refer to Appendix E - Example of Symbology and Label Placement	CMYK RGB	0, 0, 0, 30 178, 178, 178	
			RGB CMYK	35, 31, 32 0, 0, 0, 100	
The storage of agricultural source material.	4	installation of swp.ttf required apply labels centered on the symbol Please refer to Appendix E - Example of Symbology and Label Placement	CMYK RGB	0, 0, 0, 30 178, 178, 178	
			RGB CMYK	35, 31, 32 0, 0, 0, 100	
The management of agricultural source material.	5	installation of swp.ttf required apply labels centered on the symbol Please refer to Appendix E - Example of Symbology and Label Placement	CMYK RGB	0, 0, 0, 30 178, 178, 178	
			RGB CMYK	35, 31, 32 0, 0, 0, 100	
The application of non-agricultural source material to land.	6	installation of swp.ttf required apply labels centered on the symbol Please refer to Appendix E - Example of Symbology and Label Placement	CMYK RGB	0, 0, 0, 30 178, 178, 178	
			RGB CMYK	35, 31, 32 0, 0, 0, 100	
The handling and storage of non-agricultural source material.	7	installation of swp.ttf required apply labels centered on the symbol Please refer to Appendix E - Example of Symbology and Label Placement	CMYK RGB	0, 0, 0, 30 178, 178, 178	
			RGB CMYK	35, 31, 32 0, 0, 0, 100	
The application of commercial fertilizer to land.	8	installation of swp.ttf required apply labels centered on the symbol Please refer to Appendix E - Example of Symbology and Label Placement	CMYK RGB	0, 0, 0, 30 178, 178, 178	
			RGB CMYK	35, 31, 32 0, 0, 0, 100	
The handling and storage of commercial fertilizer.	9	installation of swp.ttf required apply labels centered on the symbol Please refer to Appendix E - Example of Symbology and Label Placement	CMYK RGB	0, 0, 0, 30 178, 178, 178	
			RGB CMYK	35, 31, 32 0, 0, 0, 100	
The application of pesticide to land.	10	installation of swp.ttf required apply labels centered on the symbol Please refer to Appendix E - Example of Symbology and Label Placement	CMYK RGB	0, 0, 0, 30 178, 178, 178	
			RGB CMYK	35, 31, 32 0, 0, 0, 100	
The handling and storage of pesticide.	11	installation of swp.ttf required apply labels centered on the symbol Please refer to Appendix E - Example of Symbology and Label Placement	CMYK RGB	0, 0, 0, 30 178, 178, 178	
			RGB CMYK	35, 31, 32 0, 0, 0, 100	
The application of road salt.	12	installation of swp.ttf required apply labels centered on the symbol Please refer to Appendix E - Example of Symbology and Label Placement	CMYK RGB	0, 0, 0, 30 178, 178, 178	
			RGB CMYK	35, 31, 32 0, 0, 0, 100	
The handling and storage of road salt.	13	installation of swp.ttf required apply labels centered on the symbol Please refer to Appendix E - Example of Symbology and Label Placement	CMYK RGB	0, 0, 0, 30 178, 178, 178	
			RGB CMYK	35, 31, 32 0, 0, 0, 100	
The storage of snow.	14	installation of swp.ttf required apply labels centered on the symbol Please refer to Appendix E - Example of Symbology and Label Placement	CMYK RGB	0, 0, 0, 30 178, 178, 178	
			RGB CMYK	35, 31, 32 0, 0, 0, 100	
The handling and storage of fuel.	15	installation of swp.ttf required apply labels centered on the symbol Please refer to Appendix E - Example of Symbology and Label Placement	CMYK RGB	0, 0, 0, 30 178, 178, 178	
			RGB CMYK	35, 31, 32 0, 0, 0, 100	
The handling and storage of a dense non-aqueous phase liquid.	16	installation of swp.ttf required apply labels centered on the symbol Please refer to Appendix E - Example of Symbology and Label Placement	CMYK RGB	0, 0, 0, 30 178, 178, 178	
			RGB CMYK	35, 31, 32 0, 0, 0, 100	
The handling and storage of an organic solvent.	17	installation of swp.ttf required apply labels centered on the symbol Please refer to Appendix E - Example of Symbology and Label Placement	CMYK RGB	0, 0, 0, 30 178, 178, 178	
			RGB CMYK	35, 31, 32 0, 0, 0, 100	
The management of runoff that contains chemicals used in the de-icing of aircraft.	18	installation of swp.ttf required apply labels centered on the symbol Please refer to Appendix E - Example of Symbology and Label Placement	CMYK RGB	0, 0, 0, 30 178, 178, 178	
			RGB CMYK	35, 31, 32 0, 0, 0, 100	
An activity that takes water from an aquifer or a surface water body without returning the water taken to the same aquifer or surface water body.	19	installation of swp.ttf required apply labels centered on the symbol Please refer to Appendix E - Example of Symbology and Label Placement	CMYK RGB	0, 0, 0, 30 178, 178, 178	
			RGB CMYK	35, 31, 32 0, 0, 0, 100	
An activity that reduces the recharge of an aquifer.	20	installation of swp.ttf required apply labels centered on the symbol Please refer to Appendix E - Example of Symbology and Label Placement	CMYK RGB	0, 0, 0, 30 178, 178, 178	
			RGB CMYK	35, 31, 32 0, 0, 0, 100	
The use of land as livestock grazing or pasturing land, an outdoor confinement area or a farm-animal yard. O. Reg. 385/08, s. 3.	21	installation of swp.ttf required apply labels centered on the symbol Please refer to Appendix E - Example of Symbology and Label Placement	CMYK RGB	0, 0, 0, 30 178, 178, 178	
			RGB CMYK	35, 31, 32 0, 0, 0, 100	

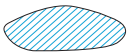
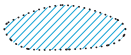
Threats - Drinking Water Quality - Areas with Contamination Groundwater and/or Land

Data Set Description	Cartographic Representation	Cartographic Specifications	Colour Specifications		ID
Control Orders/Field Orders		*installation of swp.ttf required* *size 5.29mm (15pt)*	*CMYK* *RGB*	*0, 0, 0, 100* *35, 31, 32*	
Federal Contimination Sites and Landfills Inventory		*installation of swp.ttf required* *lineweight: 0.353mm (1pt)*	*CMYK* *RGB* *RGB* *CMYK*	*100, 0, 100, 0* *0, 255, 0* *100, 0, 100, 0* *0, 255, 0*	
Record of Site Condition (RSC)		*lineweight: 0.088mm (0.25pt)*	*CMYK* *RGB* *RGB* *CMYK*	*0, 30, 15, 0* *250, 192, 191* *35, 31, 32* *0, 0, 0, 100*	
Brownfields RSC		*installation of swp.ttf required*	*CMYK* *RGB*	*20, 35, 35, 0* *204, 166, 166*	
Contaminated Site		*installation of swp.ttf required* *size 5.29mm (15pt)*	*CMYK* *RGB*	*0, 0, 0, 100* *35, 31, 32*	
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		

Threats - Drinking Water Quality - Areas of Water Contamination (Base Data)

Data Set Description	Cartographic Representation	Cartographic Specifications	Colour Specifications		ID
Provincial Water Quality Monitoring Network (PWQMN)		*installation of swp.ttf required* *size 3.88mm (11pt)*	*CMYK* *RGB*	*0, 0, 0, 100* *35, 31, 32*	
Provincial Groundwater Monitoring Network (PGWMN)		*installation of MOE Symbology A.ttf required* *size 5.29mm (15pt)*	*CMYK* *RGB*	*0, 100 100, 0* *255, 0, 0*	
Non-Compliance Reports/Control Orders		*installation of swp.ttf required* *size 5.29mm (15pt)*	*CMYK* *RGB*	*0, 0, 0, 100* *35, 31, 32*	
Adverse Drinking Water Quality Incidents Reports		*installation of swp.ttf required* *size 5.29mm (15pt)*	*CMYK* *RGB*	*0, 0, 0, 100* *35, 31, 32*	
Drinking Water Surveillance Program (DWSP)		*installation of swp.ttf required* *size 5.29mm (15pt)*	*CMYK* *RGB*	*0, 0, 0, 100* *35, 31, 32*	
Annual Compliance Report/DWIS		*installation of swp.ttf required* *size 3.88mm (11pt)*	*CMYK* *RGB*	*0, 0, 0, 100* *35, 31, 32*	
Private Water Well Testing		*installation of swp.ttf required* *size 5.29mm (15pt)*	*CMYK* *RGB* *RGB* *CMYK*	*100, 0, 100, 0* *0, 255, 255* *35, 31, 32* *0, 0, 0, 100*	
CA Water Quality Monitoring		*installation of swp.ttf required* *size 5.29mm (15pt)*	*CMYK* *RGB* *RGB* *CMYK*	*25, 70, 100, 10* *166, 51, 0* *35, 31, 32* *0, 0, 0, 100*	
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		

Threats - Drinking Water Quality - Other

Data Set Description	Cartographic Representation	Cartographic Specifications	Colour Specifications		ID
Snow Dumps		*lineweight: 0.264mm (0.75pt)* *line dash-gap: 0.035mm-0.706mm (0.1pt- 2pt)*	*CMYK* *RGB*	*35, 31, 32* *0, 0, 0, 100*	
Infiltration Lagoons or Ponds		*lineweight: 0.127mm (0.36pt)* *interior line angle: 45°* *interior line width: 0.247mm (0.7pt)* *interior line separation: 1.41mm (4pt)*	*CMYK* *RGB* *RGB* *CMYK*	*74, 18, 4, 0* *66, 209, 245* *35, 31, 32* *0, 0, 0, 100*	
Stormwater Discharges		*lineweight: 0.247mm (0.7pt)* *line dash-gap: 0.035mm-0.706mm (0.1pt- 2pt)* *interior line angle: 45°* *interior line width: 0.247mm (0.7pt)* *interior line separation: 1.41mm (4pt)*	*CMYK* *RGB* *RGB* *CMYK*	*74, 18, 4, 0* *66, 209, 245* *35, 31, 32* *0, 0, 0, 100*	
Landfill		*lineweight: 0.247mm (0.7pt)* *interior line angle: 45°* *interior line width: 0.247mm (0.7pt)* *interior line separation: 1.41mm (4pt)*	*CMYK* *RGB* *RGB* *CMYK*	*0, 25, 75, 0* *255, 191, 64* *35, 31, 32* *0, 0, 0, 100*	
Non-hazardous waste transfer / processing site		*lineweight: 0.247mm (0.7pt)* *interior line angle: 45°* *interior line width: 0.247mm (0.7pt)* *interior line separation: 1.41mm (4pt)*	*CMYK* *RGB*	*0, 0, 0, 45* *157, 159, 162*	
Hazardous waste transfer / processing site		*lineweight: 0.247mm (0.7pt)* *interior line angle: 45°* *interior line width: 0.247mm (0.7pt)* *interior line separation: 1.41mm (4pt)*	*CMYK* *RGB*	*25, 100, 100, 0* *193, 39, 45*	
Unserviced Area		*lineweight: 0.247mm (0.7pt)* *interior line angle: 45°* *interior line width: 0.247mm (0.7pt)* *interior line separation: 1.41mm (4pt)*	*CMYK* *RGB*	*38, 0, 60, 0* *164, 210, 138*	
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		

Threats - Drinking Water Quality - Potential Contaminant Sources (Base Data) page 1

Data Set Description	Cartographic Representation	Cartographic Specifications	Colour Specifications		ID
Historical Land Uses		*installation of MOE Symbolgy B.ttf required*	CMYK RGB	10, 35, 0, 0 230, 166, 255	
			RGB CMYK	35, 31, 32 0, 0, 0, 100	
Certificate of Approval Database (CofA) Water		*installation of swp.ttf required* *size 5.29mm (15pt)*	CMYK RGB	74, 18, 4, 0 66, 209, 245	
			RGB CMYK	35, 31, 32 0, 0, 0, 100	
Certificate of Approval Database (CofA) Industrial waterwater		*installation of swp.ttf required* *size 5.29mm (15pt)*	CMYK RGB	10, 35, 0, 0 230, 166, 255	
			RGB CMYK	35, 31, 32 0, 0, 0, 100	
Certificate of Approval Database (CofA) Municipal/Provincial Sewage		*installation of swp.ttf required* *size 5.29mm (15pt)*	CMYK RGB	0, 100, 100, 0 255, 0, 0	
			RGB CMYK	35, 31, 32 0, 0, 0, 100	
Certificate of Approval Database (CofA) Municipal/Provincial Waterworks		*installation of swp.ttf required* *size 5.29mm (15pt)*	CMYK RGB	100, 0, 100, 0 0, 255, 0	
			RGB CMYK	35, 31, 32 0, 0, 0, 100	
Muncipal Coal Gasification Plant Site Inventory & Inventory of Coal Gasification Plant Waste Sites - producing		*installation of swp.ttf required* *size 6.35mm (18pt)*	CMYK	0, 0, 0, 100	
			RGB	35, 31, 32	
Muncipal Coal Gasification Plant Site Inventory & Inventory of Coal Gasification Plant Waste Sites - non-producing		*installation of swp.ttf required* *size 6.35mm (18pt)*	CMYK	0, 0, 0, 100	
			RGB	35, 31, 32	
National Pollutant Release Inventory (NPRI) - Discharge		*installation of swp.ttf required*	CMYK RGB	0, 35, 100, 0 255, 166, 0	
			RGB CMYK	35, 31, 32 0, 0, 0, 100	
Sample Results Data Store (SRDS) (M in symbol for MISA)		*installation of MOE Symbolgy B.ttf required*	CMYK RGB	35, 0, 10, 0 166, 255, 230	
			RGB CMYK	35, 31, 32 0, 0, 0, 100	
Waste Site - open		*installation of swp.ttf required*	CMYK RGB	0, 0, 0, 15 220, 221, 222	
			RGB CMYK	35, 31, 32 0, 0, 0, 100	
Water Site - closed		*installation of swp.ttf required*	CMYK	35, 31, 32	
			RGB	0, 0, 0, 100	
Petroleum Well		*installation of swp.ttf required*	CMYK	0, 99, 100, 0	
			RGB	237, 34, 36	
Natural Areas of Contamination		*installation of swp.ttf required* *lineweight: 0.247mm (0.7pt)* *interior line angle: 45°* *interior line width: 0.247mm (0.7pt)* *interior line separation: 1.41mm (4pt)*	CMYK	100, 0, 100, 0	
			RGB	0, 166, 81	
Underground Fuel Storage Tanks		*installation of swp.ttf required*	CMYK	35, 31, 32	
			RGB	0, 0, 0, 100	
Uncovered Sand/Salt Storage		*installation of swp.ttf required*	CMYK	35, 31, 32	
			RGB	0, 0, 0, 100	
Covered Salt Domes		*installation of swp.ttf required*	CMYK	35, 31, 32	
			RGB	0, 0, 0, 100	
Abandoned Mine Site (AMIS)		*installation of MOE Symbology B.ttf required*	CMYK	35, 31, 32	
			RGB	0, 0, 0, 100	
Open Mine Site		*installation of MOE Symbology B.ttf required*	CMYK	35, 31, 32	
			RGB	0, 0, 0, 100	
Municipal/Provincial Sewage System		*installation of swp.ttf required*	CMYK RGB	0, 0, 0, 30 178, 178, 178	
			RGB CMYK	205, 170,102 20, 33, 60, 0	
Industrial Sewage System		*installation of swp.ttf required*	CMYK RGB	0, 0, 0, 30 178, 178, 178	
			RGB CMYK	35, 31, 32 0, 0, 0, 100	
Known Spills		*installation of MOE Symbolgy B.ttf required*	CMYK	0, 100, 70, 12	
			RGB	216, 100, 29	

Threats - Drinking Water Quality - Potential Contaminant Sources (Base Data) page 2

Data Set Description	Cartographic Representation	Cartographic Specifications	Colour Specifications		ID
Haz Waste Generator		*installation of swp.ttf required*	*CMYK* *RGB*	*0, 0, 0, 100* *0, 0, 0*	
			RGB *CMYK*	*255, 255, 0* *0, 0, 100, 0*	
Haz Waste Reciever		*installation of swp.ttf required*	*CMYK* *RGB*	*0, 0, 100, 0* *255, 255, 255*	
			RGB *CMYK*	*0, 0, 32* *0, 0, 0, 100*	
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		

Drinking Water Symbols (page 1)

Data Set Description	Cartographic Representation	Cartographic Specifications	Colour Specifications		ID
		Please refer to Appendix E - Example of Symbology and Label Placement	CMYK RGB		
Stormwater Facility Locations		*installation of swp.ttf required* *circle diameter: 4.93mm (14pt)*	CMYK RGB	*0, 0, 0, 75* *99, 100, 102*	
Well		*installation of swp.ttf required* *symbol size: 3.53mm (10pt)*	CMYK RGB	*83, 7, 96, 1* *0, 165, 81*	
Well Type - I	I	*installation of swp.ttf required* *symbol size: 3.53mm (10pt)* *label: Arial 8pt, white halo 0.18mm (0.5pt)*	CMYK RGB	*83, 7, 96, 1* *0, 165, 81*	
Well Type - II	II	*installation of swp.ttf required* *symbol size: 3.53mm (10pt)* *label: Arial 8pt, white halo 0.18mm (0.5pt)*	CMYK RGB	*83, 7, 96, 1* *0, 165, 81*	
Well Type - III	III	*installation of swp.ttf required* *symbol size: 3.53mm (10pt)* *label: Arial 8pt, white halo 0.18mm (0.5pt)* *label position: southeast corner of point*	CMYK RGB	*83, 7, 96, 1* *0, 165, 81*	
Well Type - IV	IV	*installation of swp.ttf required* *symbol size: 3.53mm (10pt)* *label: Arial 8pt, white halo 0.18mm (0.5pt)* *label position: southeast corner of point*	CMYK RGB	*83, 7, 96, 1* *0, 165, 81*	
Intake Classification **Type A - Great Lakes**	A	*installation of swp.ttf required* *symbol size: 3.53mm (10pt)* *label: Arial 8pt, white halo 0.18mm (0.5pt)* *label position: west of point*	CMYK RGB RGB CMYK	*2, 4, 92, 0* *255, 230, 44* *35, 31, 32* *0, 0, 0, 100*	
Intake Classification **Type B - Connecting Channels**	B	*installation of swp.ttf required* *symbol size: 3.53mm (10pt)* *label: Arial 8pt, white halo 0.18mm (0.5pt)* *label position: west of point*	CMYK RGB RGB CMYK	*2, 4, 92, 0* *255, 230, 44* *35, 31, 32* *0, 0, 0, 100*	
Intake Classification **Type C - Rivers**	C	*installation of swp.ttf required* *symbol size: 3.53mm (10pt)* *label: Arial 8pt, white halo 0.18mm (0.5pt)* *label position: west of point*	CMYK RGB RGB CMYK	*2, 4, 92, 0* *255, 230, 44* *35, 31, 32* *0, 0, 0, 100*	
Intake Classification **Type D - Inland Lakes and Impoundments**	D	*installation of swp.ttf required* *symbol size: 3.53mm (10pt)* *label: Arial 8pt, white halo 0.18mm (0.5pt)* *label position: west of point*	CMYK RGB	*2, 4, 92, 0* *255, 230, 44* *35, 31, 32* *0, 0, 0, 100*	
Private Water Well		*installation of swp.ttf required* *symbol size: 4.23mm (12pt)*	CMYK RGB	*100, 0, 0, 0* *0, 174, 239*	
			CMYK RGB		
			CMYK RGB		
			CMYK RGB		
			CMYK RGB		
			CMYK RGB		
			CMYK RGB		
			CMYK RGB		
			CMYK RGB		
			CMYK RGB		

Drinking Water Symbols (page 2)

Data Set Description	Cartographic Representation	Cartographic Specifications	Colour Specifications			ID
The Following Drinking Water Symbols can be applied to Water Treatment Plant (WTP) dataset class (subset of DWS)		*WTP is and optional dataset and is not required for an Assessment Report. These symbols can be displayed as a reference*		CMYK		
				RGB		
Drinking Water System - 1 **Large Municipal Residential System (MOE Regulated)**		*installation of swp.ttf required* *symbol size: 4.23mm (12pt)* *label: Arial 8pt, white halo 0.18mm (0.5pt)* *label position: northeast of point*		CMYK	*0, 0, 0, 50*	
				RGB	*145, 147, 150*	
Drinking Water System - 2 **Small Municipal Residential System (MOE Regulated)**		*installation of swp.ttf required* *symbol size: 4.23mm (12pt)* *label: Arial 8pt, white halo 0.18mm (0.5pt)* *label position: northeast of point*		CMYK	*0, 0, 0, 50*	
				RGB	*145, 147, 150*	
Drinking Water System - 3 **Large Municipal Non-Residential System (MOH Regulated)**		*installation of swp.ttf required* *symbol size: 4.23mm (12pt)* *label: Arial 8pt, white halo 0.18mm (0.5pt)* *label position: northeast of point*		CMYK	*0, 0, 0, 50*	
				RGB	*145, 147, 150*	
Drinking Water System - 4 **Small Municipal Non-Residential System (MOH Regulated)**		*installation of swp.ttf required* *symbol size: 4.23mm (12pt)* *label: Arial 8pt, white halo 0.18mm (0.5pt)* *label position: northeast of point*		CMYK	*0, 0, 0, 50*	
				RGB	*145, 147, 150*	
Drinking Water System - 5 **Non-Municipal Year-Round Residential System (MOH Regulated)**		*installation of swp.ttf required* *symbol size: 4.23mm (12pt)* *label: Arial 8pt, white halo 0.18mm (0.5pt)* *label position: northeast of point*		CMYK	*0, 0, 0, 50*	
				RGB	*145, 147, 150*	
Drinking Water System - 6 **Non-Municipal Seasonal Residential System (MOH Regulated)**		*installation of swp.ttf required* *symbol size: 4.23mm (12pt)* *label: Arial 8pt, white halo 0.18mm (0.5pt)* *label position: northeast of point*		CMYK	*0, 0, 0, 50*	
				RGB	*145, 147, 150*	
Drinking Water System - 7 **Large Non-Municipal Non-Residential System (MOH Regulated)**		*installation of swp.ttf required* *symbol size: 4.23mm (12pt)* *label: Arial 8pt, white halo 0.18mm (0.5pt)* *label position: northeast of point*		CMYK	*0, 0, 0, 50*	
				RGB	*145, 147, 150*	
Drinking Water System - 8 **Small Non-Municipal Non-Residential System (MOH Regulated)**		*installation of swp.ttf required* *symbol size: 4.23mm (12pt)* *label: Arial 8pt, white halo 0.18mm (0.5pt)* *label position: northeast of point*		CMYK	*0, 0, 0, 50*	
				RGB	*145, 147, 150*	
				CMYK		
				RGB		
				CMYK		
				RGB		
				CMYK		
				RGB		
				CMYK		
				RGB		
				CMYK		
				RGB		
				CMYK		
				RGB		
				CMYK		
				RGB		
				CMYK		
				RGB		
				CMYK		
				RGB		
				CMYK		
				RGB		
				CMYK		
				RGB		
				CMYK		
				RGB		

Managed Lands, Livestock Density, Impervious Surface

Data Set Description	Cartographic Representation	Cartographic Specifications	Colour Specifications		ID
Agricultural Managed Lands		*if necessary, add "Percent of Managed Lands" as a label*	CMYK RGB	20, 50, 100, 68 90, 59, 0	
Non-Agricultural Managed Lands			CMYK RGB	0, 100, 0, 0 236, 0, 140	
Livestock Density (ASM) <0.5 Nutrient Unit			CMYK RGB	0, 40, 80, 0 255, 153, 51	
Livestock Density (ASM) 0.5-1.0 Nutrient Unit			CMYK RGB	45, 0, 75, 0 149, 203, 110	
Livestock Density (ASM) >1.0 Nutrient Unit			CMYK RGB	65, 25, 0, 0 80, 159, 215	
Managed Land < 40%			CMYK RGB	20, 0, 30, 0 206, 230, 193	
Managed Land 40-80%			CMYK RGB	45, 0 60, 0 146, 204, 139	
Managed Land > 80%			CMYK RGB	75, 0 100, 0 57, 181, 74	
Impervious Surface Related to Road Salt < 1%			CMYK RGB	20, 0, 30 ,0 208, 230, 193	
Impervious Surface Related to Road Salt 1 - <8%			CMYK RGB	0, 0, 75, 0 255, 244, 96	
Impervious Surface Related to Road Salt 8 - <80%			CMYK RGB	0, 30, 80, 0 253, 186, 77	
Impervious Surface Related to Road Salt equal to or greater than 80%			CMYK RGB	0, 80, 80, 0 241, 90, 64	
Fertilizer			CMYK RGB	23, 0 100, 0 215, 223, 35	
			CMYK RGB		
			CMYK RGB		
			CMYK RGB		
			CMYK RGB		
			CMYK RGB		
			CMYK RGB		
			CMYK RGB		
			CMYK RGB		

Misc. Symbols - Points

Data Set Description	Cartographic Representation	Cartographic Specifications	Colour Specifications		ID
Electric Power Generation		*installation of swp.ttf required* *symbol size: 3.53mm (10pt)*	*CMYK* *RGB*	*0, 0, 0, 100* *0, 0, 0*	
Lake Monitoring Station		*installation of swp.ttf required* *symbol size: 4.94mm (14pt)*	*CMYK* *RGB*	*68, 79, 0, 0* *108, 82, 162*	
General Active Monitoring		*installation of swp.ttf required* *symbol size: 4.94mm (14pt)*	*CMYK* *RGB*	*63, 0, 100, 0* *104, 189, 69*	
General Historic Monitoring Station		*installation of swp.ttf required* *symbol size: 4.94mm (14pt)*	*CMYK* *RGB*	*0, 100, 100, 0* *237, 28, 36*	
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		
			CMYK *RGB*		

Appendix A - "Tiered Support"

The purpose of this document and the ESRI ArcMap style file is to:

- create a consolidated symbology for Source Protection Planning Assessment maps in support of the Clean Water Act.

- facilitate consistent map products provided to common neighbouring stakeholders (such as a municipality that shares multiple SPAs)

This document and style file are a work in progress so please provide any comments / updates / suggestions to:

1. Source Protection Programs Branch Coordinator
   Source Protection Programs Branch, Drinking Water Management Division,
   Ontario Ministry of the Environment
   e-mail contact: sppb.coordinator.moe@ontario.ca

If the issue cannot be resolved, contact:

2. Water Resources Information Program (WRIP)
   Geographic Information Branch, Science and Information Division
   Ontario Ministry of Natural Resources
   e-mail contact: wrip@ontario.ca

Appendix B - Font Installation Instructions

WINDOWS TRUE TYPE FONT INSTALLATION

NOTE:
The True Type fonts included with the symbology package are:

- swp.ttf
- MOE Symbology A.ttf
- MOE Symbology B.ttf

These must be installed in order for the ArcMap style file to function correctly. It is recommended that the required fonts be installed before the ArcMAP style file.

- Open the Windows FONTS folder.
  (START→SETTINGS→CONTROL PANEL→FONTS)
- In the FILE menu, click INSTALL NEW FONT.
- Click the drive and folder that contain the fonts you want to install.
- Double-click the icon for the font you want to install.
- Close the FONTS folder.

- To select more than one font to install, press and hold down the CTRL key, and then click the fonts you want.

- For TrueType fonts, you can also install the font by dragging and dropping the appropriate font files to the FONTS folder.

Appendix C - ESRI ArcMap Style File Installation Instructions

ESRI ArcMap Style File Installation

NOTE:
The True Type fonts included with the symbology package are:

- swp.ttf
- MOE Symbology A.ttf
- MOE Symbology B.ttf

These must be installed in order for the ArcMap style file to function correctly. It is recommended that the required fonts be installed before the ArcMAP style file.

a) Open the ArcGIS STYLES folder. This folder is usually located at C:\Program Files\ ArcGIS\Styles

b) Paste a copy of the "MappingSymbologyCWA_Feb10.style"* file to the ArcGIS STYLES folder.

c) Open an ArcMap .MXD file where the SWP symbology needs to be applied.

d) Click the TOOLS menu, point to STYLES, and then click STYLE MANAGER.

e) Click the STYLES button and then choose "MappingSymbologyCWA_Feb10.style"* from the list. A "MappingSymbologyCWA_Feb10.style"* folder should then be visible in the left hand side of the Style Manager window.

f) Click the CLOSE button to close the Style Manager.

- The SWP symbology can now be accessed for the current ArcMAP .MXD file.
- SWP symbology can be accessed from the CATEGORY dropdown list in the SYMBOL SELECTOR window.

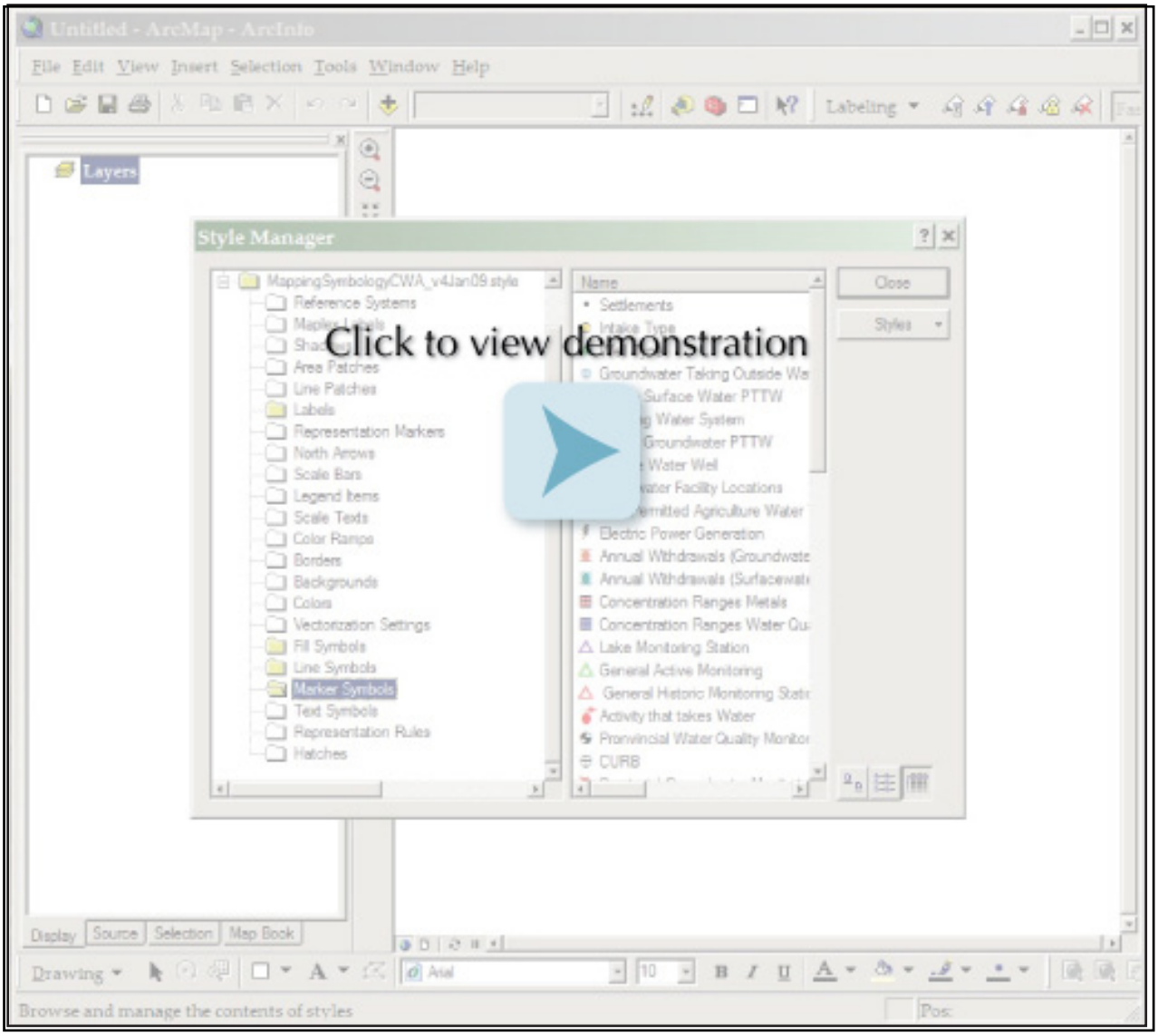
NOTE: Symbol Sets and Individual Symbols have similar names to those found in the MappingSymbologyCWA_Nov09.pdf document

- Steps c) through f) may have to be repeated for each individual map.
- Steps a) though f) may have to be repeated for other STYLE file

Click here for a demonstration of how to access the Style File within Arc Map 

*file name may differ slighty in the demonstration

Appendix D - Demonstration: Accessing the Symbology Style File

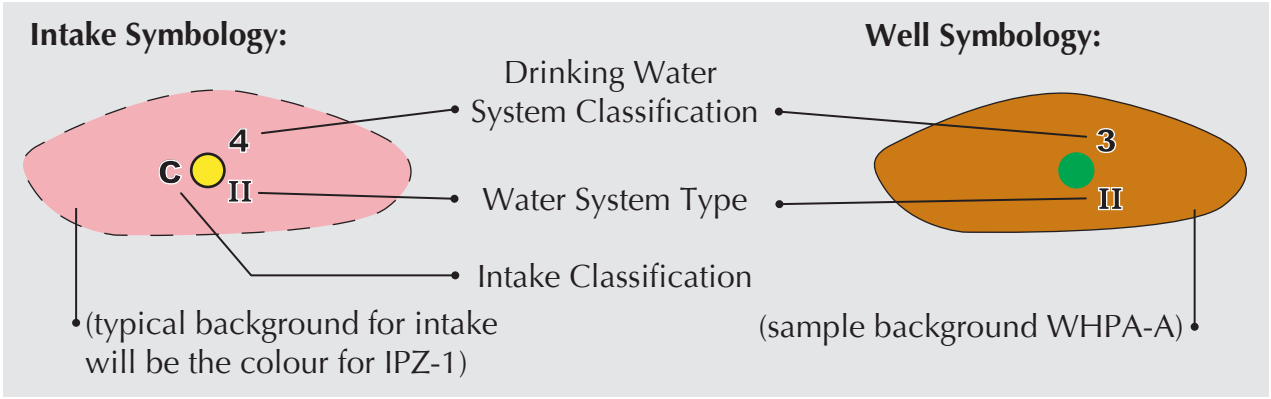


This demonstation can be accesssed in the Mapping Symbology PDF Document or MappingSymbologyCWA_Apr09_DemoStyleFile.exe*

*file name may differ slighty in the demonstration

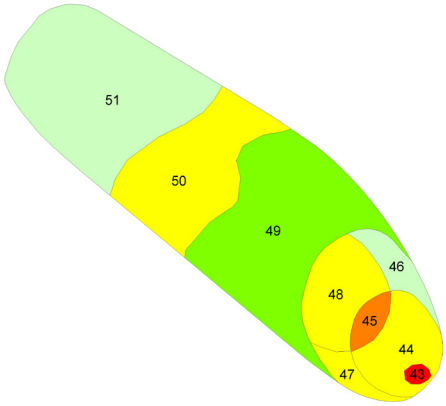
Appendix E - Example of Symbology and Label Placement

Example for Intakes and Well Symbols



Example of Mapping Prescribed Drinking Water Threats by Vulnerable Scoring Area

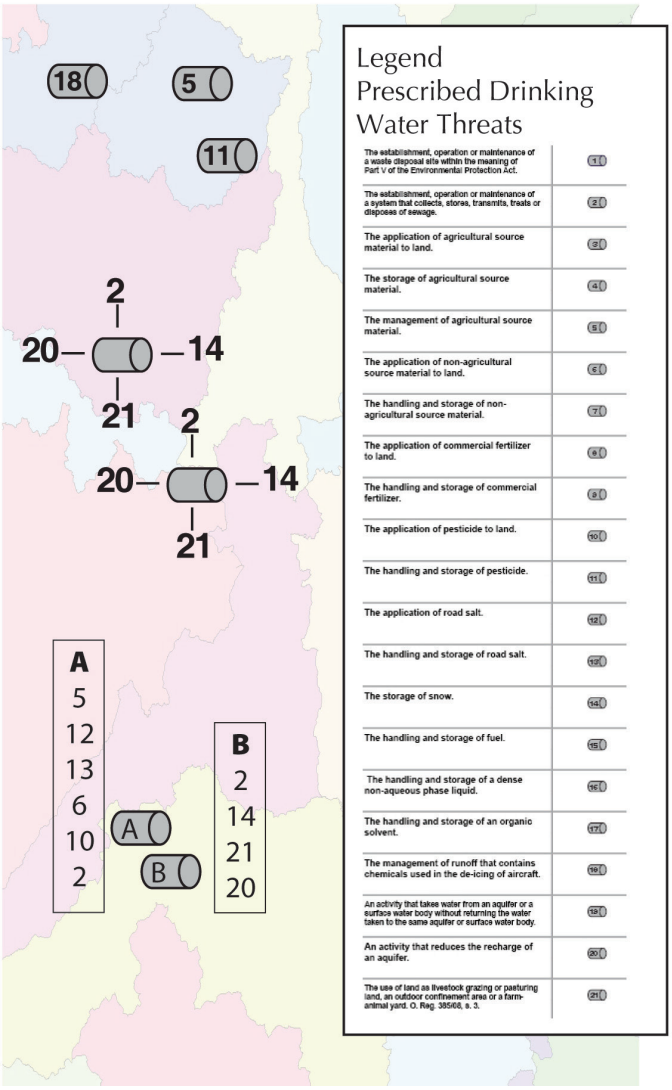
Threats mapping may be summarized by Vulnerable Scoring Area (VSA). In this instance the map should display the VSA and contain a summary table that lists all the threats present and the number of occurrences of each threat in each VSA. The following example is one possibility of how this could look.



	Threat Counts by Vulnerable Scoring Area								
	43	44	45	46	47	48	49	50	51
The handling and storage of pesticides	1					2		3	
The handling and storage of fuel		2	1		1	2		4	
The handling and storage of a dense non-aqueous phase liquid								1	

Acceptable Options for Labelling Prescribed Drinking Water Threats locations

Option 1	Where possible represent the threats with a single threats symbol, label centred within symbol.
Option 2a	Where multiple threats occur in the same location, the individual threats will be added as a numeric label around the threats symbol (with leader lines pointing back to the threats symbol) (See Symbol A)*
Option 2b	If there are too many threats at a location to label around the symbol then the symbol will be labelled using incrementing letters which will reference a table on the map listing all the threats at that location. (see symbols B and C for one possible table layout)*
* the master list of Prescribed Drinking Water Threats should be in the Main Map Legend	



Appendix F - ArcMap Mulitple Label Placement

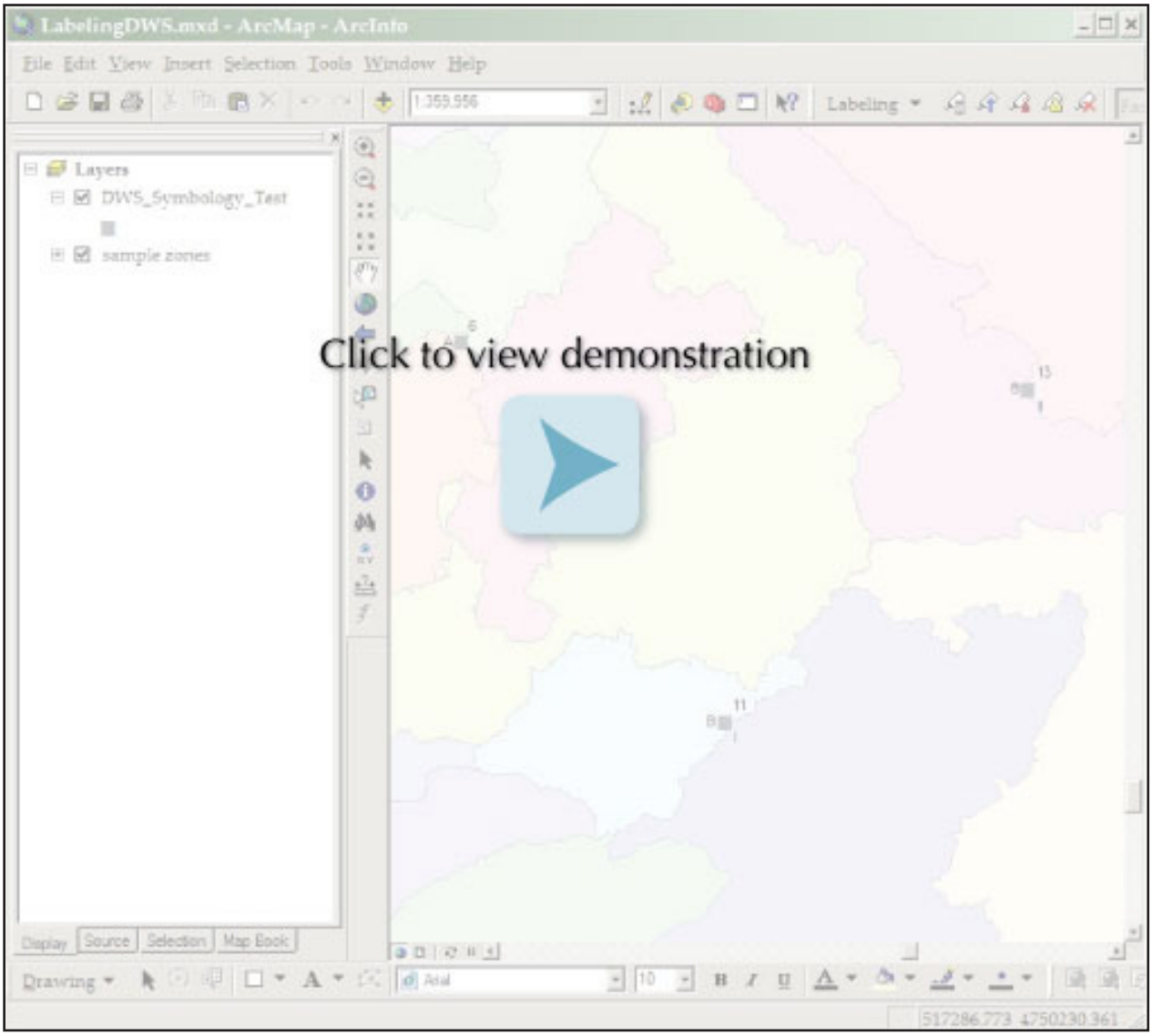
How to apply multiple labels

1. Open the ArcMap session that requires multiple labeling
   Select Labeling Toolbar (View → Toolbars → Labeling
2. It may be nessesary to access the Maplex Extenstion
   Tools → Extensions → the Maplex Extension
3. Add the Symbology Style file
   Tools → Styles → Style Manager
   On the Style Manager dialog box, Click the Styles button
   Select the MappingSymbologyCWA_Feb10 menu item
   Click the Close button
4. Accessing the Label Manager
   On the Labeling Toolbox Select the Label Manager 

   The Label Manager dialog opens
5. Select the Layer that requires a mulitple label
6. In the Class Name text box, enter the Names of the attributes as they appear in the attribute table of the data layer
7. Apply the labels for each attribute using Label Styles
   Select the Label Field combo box
   Select the first Class item (DWSClass)
   Click the Label Styles... button
   The Label Styles Selector opens
   Scroll to the Drinking Water System Classification item
   Click the OK button
8. Repeat step 7 for all lables to be applied
9. Right Click the Layer, select Label Features

Click here for a demonstration of this process 

Appendix G - Demonstration: Applying Multiple Labels



This demonstation can be accesssed in the Mapping Symbology PDF Document or MappingSymbologyCWA_Apr09_DemoLabels.exe*

*file name may differ slighty in the demonstration